

What is claimed is:

1. A method of making a disc brake system, comprising:

providing at least one brake disc having braking surfaces on opposite sides of the at least one brake disc;

supporting the at least one brake disc on a rotatable mounting such that the at least one brake disc is rotatable with the rotatable mounting and slideable axially relative to the rotatable mounting;

arranging at least one pair of friction elements on the opposite sides of the at least one brake disc operative when actuated to axially displace the at least one braking disc and frictionally engage the braking surfaces of the at least one brake disc to effect braking action of the at least one disc and the rotatable mounting; and

mounting a resilient device at circumferentially spaced locations on the at least one brake disc slideable axially with the at least one brake disc and exerting a constant resilient bias force between the at least one brake disc and the rotatable mounting.

2. The method of claim 1 wherein the resilient device is provided in the form of a plurality of resilient spring members mounted on and movable with the at least one brake disc.

3. A method of mounting an axially movable brake disc on a rotatable mounting of a disc brake system, comprising: providing a resilient device adapted to act between the brake disc and the rotatable mounting for the brake disc at circumferentially spaced positions around the brake disc, and mounting the resilient

device on the brake disc for axial movement with the brake disc and to apply a resilient bias force directed from the brake disc to the rotatable mounting.

4. A disc brake system comprising:

a rotatable mounting;

at least one brake disc supported on said rotatable mounting for relative axial displacement and for rotation therewith, said at least one brake disc having opposite sides and braking surfaces on said opposite sides;

at least one pair of friction elements operative when actuated to frictionally engage said braking surfaces of said at least one brake disc to effect braking action of said at least one brake disc and said rotatable mounting; and

a resilient device mounted at circumferentially spaced locations on said at least one brake disc and movable axially with said at least one brake disc relative to said rotatable mounting, said resilient device acting between said at least one brake disc and said rotatable mounting to apply a resilient bias force directed from said at least one brake disc to said rotatable mounting.

5. The brake disc system of claim 4 wherein said at least one brake disc includes drive keys engaging associated drive keys of said rotatable mounting, said resilient device straddling said drive keys of said at least one brake disc.

6. The disc brake system of claim 4 wherein said resilient device comprises at least one leaf spring having resilient flanges engaging said at least one brake disc.

7. The disc brake system of claim 4 wherein said spring device comprises at least one spring disposed under stress between said at least one brake disc and said rotatable mounting to exert said resilient bias force therebetween.

8. A disc brake system comprising: an axially movable brake disc supported on a rotatable mounting; a resilient device adapted to act between said brake disc and said rotatable mounting at circumferentially spaced positions around said brake disc, said resilient device being mounted on said brake disc for axial movement with said brake disc and to apply a resilient bias force directed from said brake disc to said rotatable mounting.

9. The brake disc system of claim 8 wherein said brake disc includes drive keys engaging associated drive keys of said rotatable mounting, said resilient device straddling said drive keys of said brake disc.

10. The disc brake system of claim 8 wherein said resilient device comprises at least one leaf spring having resilient flanges engaging said brake disc.

11. The disc brake system of claim 8 wherein said spring device comprises at least one spring disposed under stress between said brake disc and said rotatable mounting to exert said resilient bias force therebetween.